

SINGLE WALL OVAL - SHAPE CHIMNEYS AND LINERS DIA. 130 mm TO 350 mm

FIELD OF APPLICATION:

BURNERS RUNNING ON GAS OIL, FUEL OIL, NATURAL AND LIQUID GAS, COAL, WOOD.

EXHAUSTS USED IN THE ABOVE APPLICATIONS SHOULD COMPLY WITH THE FOLLOWING REQUIREMENTS AS PER EUROPEAN STANDARDS:

MATERIALS:

STAINLESS STEEL AISI 316L (1.4404)

OPERATING TEMPERATURE:

450°C FOR CONTINUOUS DUTY.
750°C FOR INTERMITTENT DUTY.

PRESSURE TIGHTNESS

ACCORDING TO Pr EN 1856 1 40 Pa - 2 l/sm²

MAIN CHARACTERISTICS:

- SINGLE WALL CONSTRUCTION OF OVAL SHAPE. THESE SYSTEMS ARE ESPECIALLY SUITABLE FOR IMPROVEMENT OF PRE-EXISTING CHIMNEYS OF NON CIRCULAR SECTION.
- ALLCOMPONENTS ARE DESIGNED WITH SPIGOT AND SOCKET JOINT. THEY CAN BE INTERCONNECTED BY MEANS OF THE PIPE CLIP (STANDARD ACCESSORY)
- ARE WELDED UNDER SHIELDING GAS.

INTERNATIONAL STANDARDS:

THE PREFABRICATED EXHAUST MATERIAL AND ACCESSORIES SHOULD GENERALLY MEET INTERNATIONAL STANDARDS (UNI, DIN, AFNOR) IN REGARDS TO:

ADVANTAGES:

- QUICK AND EASY INSTALLATION WITH PROVISION FOR ADAPTING TO EXISTING CHIMNEY SYSTEMS WITH NON CIRCULAR SECTION WIDE RANGE OF COMPONENTS
- PERFECTLY IMPERMEABLE TO CONDENSATE

- PERFECT GAS-TIGHTNESS AFTER SEALING WITH SILICON SEALING COMPOUNDS FORMULATED FOR HIGH TEMPERATURE SERVICE
- QUICK REACHING OF OPERATING CONDITIONS
- RAPID ACTIVATION OF DRAUGHT
- SUITABLY INSULATED WITH INSULATING SLABS (SEE «ACCESSORIES» SPECIFICATION TO AVOID BUILD UP OF CONDENSATE)

THE LINE SHOULD CONSIST OF THE FOLLOWING (see figure)

- STRAIGHT CHIMNEY SECTION
- TEMPERATURE MEASURING DEVICE WITH INSPECTION OPENING
- 90° TEE FITTING
- TEE SUPPORT FOR RELINING
- INSPECTION OPENING
- CAP
- CONDENSATE CONVEYOR
- ANCHORING ELEMENT
- INTERMEDIATE EXPANSION JOINT
- END EXPANSION JOINT
- OVAL TO ROUND ADAPTER

STRAIGHT CHIMNEY SECTION

THE STRAIGHT CHIMNEY SECTION IS THE MAIN COMPONENT FOR BUILDING BOTH THE CONNECTING FLUE PIPE AND CHIMNEY.

TEMPERATURE MEASURING DEVICE WITH INSPECTION OPENING

THE TEMPERATURE MEASURING DEVICE IS USED FOR ANALYSIS OF THE SMOKE/ FUMES, MEASURING THE EFFICIENCY OF COMBUSTION AND FOR CONTINUOUS CHECKING OF THE BURNER OUTLET TEMPERATURE. THIS COMPONENT ALLOWS COMBINING THE SMOKE DETECTION FUNCTION WITH THAT OF INSPECTION.

90° TEE FITTING

THE 90° TEE FITTING SERVES FOR CORRECT AND EASY CONNECTION BETWEEN THE CONNECTING FLUE PIPE AND CHIMNEY WITH COUPLING AT 90°.

TEE SUPPORT FOR RELINING

THE TEE SUPPORT SERVES FOR SUPPORTING THE CHIMNEY IN THE RELINING. IT IS NORMALLY GROUTED IN THE EXISTING CHIMNEY. IT ALLOWS CONNECTING THE 90° TEE IN THE UNDERLYING PART AS WELL AS REGULATORY COMPONENTS.

INSPECTION OPENING

THE INSPECTION OPENING ALLOWS INSPECTION INSIDE THE CHIMNEY. THIS COMPONENT SHOULD BE INSTALLED COMPLETE WITH A GAS-TIGHT CLOSURE. WHEN INSTALLED AT THE BOTTOM OF CHIMNEYS FOR SERVICE WITH GAS-FIRED APPLIANCES, IT SHOULD BE PROVIDED WITH A CONDENSATE CONVEYOR.

ANCHORING ELEMENT

THE ANCHORING ELEMENT IS DESIGNED FOR FACILITATING INTRODUCTION OF THE CHIMNEY SYSTEM IN PRE-EXISTING TECHNICAL CHIMNEY SHAFTS THUS ENSURING QUICK CABLE POSITIONING.

INTERMEDIATE EXPANSION JOINT

THE INTERMEDIATE EXPANSION JOINT DOES NOT ONLY COMPENSATE FOR ELONGATION OF THE CHIMNEY SYSTEM, IT ALSO SERVES FOR SUPPORTING THE CONTINUATION OF THE CHIMNEY. USE OF THIS COMPONENT IS RECOMMENDED IN ORDER NOT TO OVERLOAD THE TEE SUPPORT IN THOSE CASES WHEN THE HEIGHT, AND CONSEQUENTLY THE WEIGHT, OF THE CHIMNEY SYSTEM ARE RELATIVELY HIGH.

END EXPANSION JOINT

THE END EXPANSION JOINT IS LOCATED AT THE TOP OF THE CHIMNEY SYSTEM. IT COMPENSATES FOR ELONGATION OF LATTER OWING TO HIGH TEMPERATURE OF THE FUMES FLOWING THROUGH THE CHIMNEY. IN ADDITION TO THIS, IT ALSO SERVES TO COVER THE EXISTING CHIMNEY POT.

OVAL TO ROUND ADAPTER FITTING

THE OVAL TO ROUND ADAPTER FITTING SERVES FOR JOINING OVAL-SHAPED CHIMNEY SECTIONS TO ROUND-SHAPED CHIMNEY SECTIONS.